(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 29 December 2004 (29.12.2004)

PCT

(10) International Publication Number WO 2004/113232 A3

(51) International Patent Classification7:

C02F 1/00

(21) International Application Number:

PCT/CA2004/000946

(22) International Filing Date: 25 June 2004 (25.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/482,519 26 June 2003 (26.06.2003) US PCT/CA04/000043 9 January 2004 (09.01.2004) CA

PCT/CA04/000042

12 January 2004 (12.01.2004) CA

(71) Applicant (for all designated States except US): TER-SANO INC. [CA/CA]; 5000 Regal Drive, Windsor, Ontario NOR 1L0 (CA).

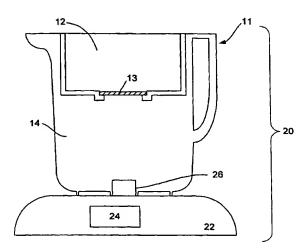
(72) Inventors; and

(75) Inventors/Applicants (for US only): NAMESPETRA, Justin, L. [CA/CA]; 226 Victoria Avenue, Essex, Ontario N8M 1N3 (CA). HICKEY, Scott, P. [CA/CA]; 3787 Cartier Drive, Niagara Falls, Ontario L2G 6P5 (CA). HENGSPERGER, Steve, L. [CA/CA]; 343 Taylor Drive, Windsor, Ontario N8N 4L4 (CA).

- (74) Agents: BEHMANN, Curtis, B. et al.; Borden Ladner Gervais LLP, World Exchange Plaxa, 100 Queen Street, Suite 1100, Ottawa, Ontario K1P 1J9 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: SYSTEM AND CONTAINERS FOR WATER FILTRATION AND ITEM SANITIZATION



(57) Abstract: A system and containers for water filtration and item sanitization are described herein. In one embodiment, a water filtration device uses an extruded carbon sheet or granulated activated carbon to filter unpurified, gravity-fed water. The device can be a stand-alone water container or incorporated within a water purification system having a further purification technology located in a base in fluid communication with the water container. Other sanitizing containers can be used with the base to sanitize items while the water in the container is being sanitized. The base can include controls for informing a user when the water filtration or item sanitization has been completed. A method of sanitizing items is also disclosed. Practical applications include drinking water filtration, sanitization of household items, medical equipment, and the like.

WO 2004/113232 A3



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,

BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- of inventorship (Rule 4.17(iv)) for US only
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- (88) Date of publication of the international search report: 19 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.